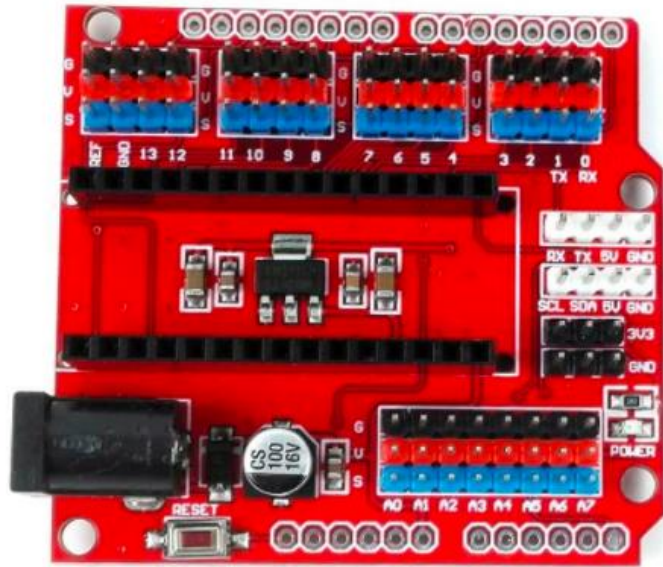


## Nano Expansion Shield For Arduino



NANO IO Shield Expansion Board for Arduino Screw Terminals is a small simple Arduino Nano extension board, it will be the Nano all pins of derivation, convenient connection.

IO Expansion Shield For Arduino Nano is specifically designed to facilitate an easy connection between Expansion Shield For Arduino Nano and many other devices. In essence, it expands for the Arduino Nano controller to link those devices in a simple and trouble-free manner.

This is a terminal adapter for the Arduino Nano. It labels for Arduino Nano version 3.0, however, you can still use this adapter for the older version (just have to remember that A0-A7 are in the reverse order). You can use this adapter to easily hook up Arduino Nano to an outside world via hook up wires.

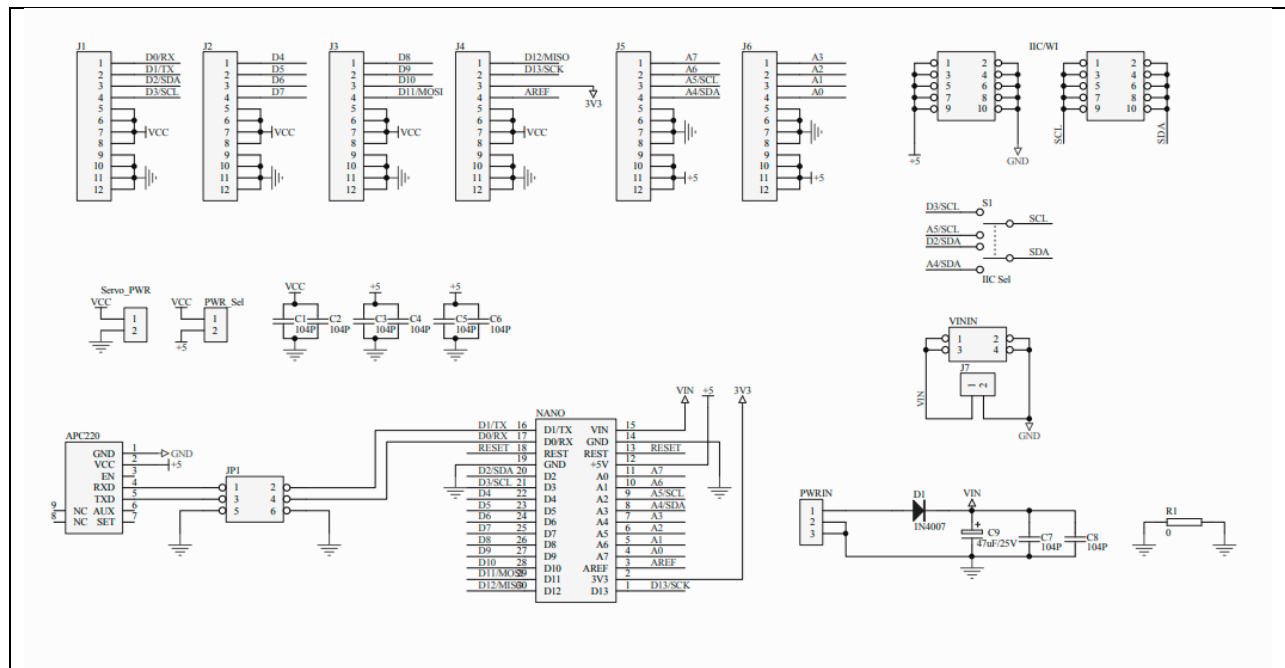
This module is compatible with the Arduino NANO .

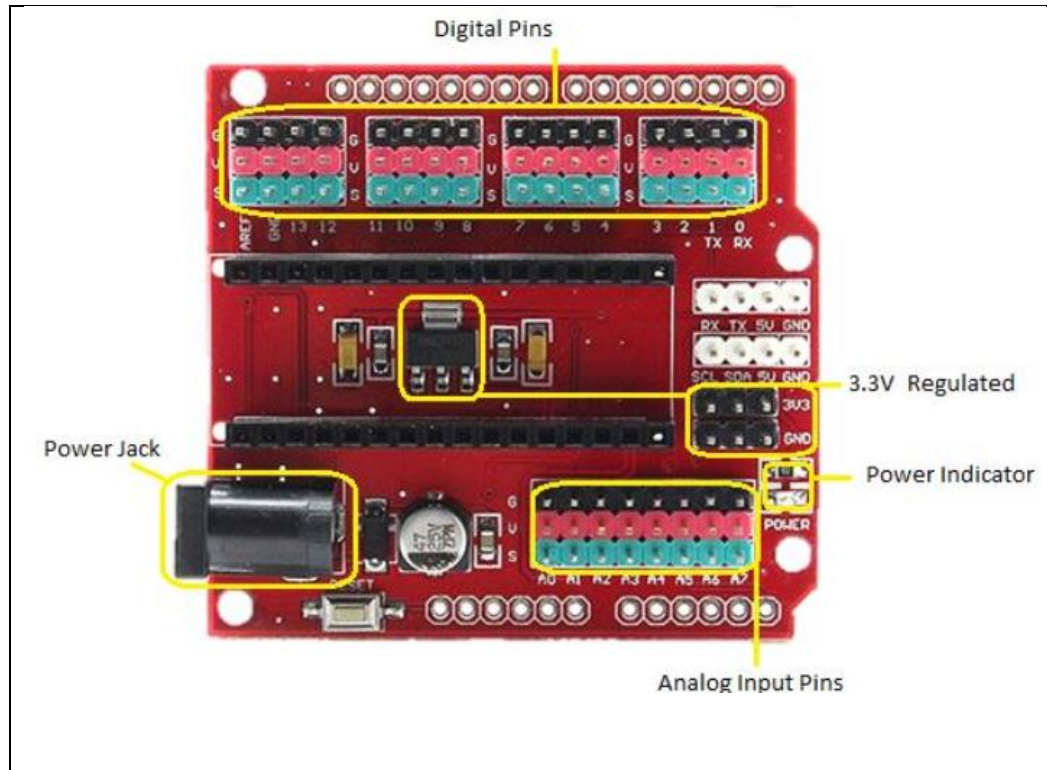
### FEATURES:

- Designed for Arduino Nano, compatible with:
  - Maker Nano (Cytron)
  - Arduino Nano (Original)
  - Arduino Nano CH340 (Compatible)
- Expanded all 22 GPIO pins to SVG 3-way(RC servo type) header pin, including:
  - 8 Analog Pins (Arduino NANO have 2 additional Analog input pin)
  - 14 Digital IO pins (include 6 PWMs)
  - AREF pin too

- I2C expansion Pin (4-way header: SCL, SCK, 5V and GND)
- UART expansion pin (4-way header: RX, TX, 5V and GND)
- More 5V and GND pins for sensor / Servo
- Additional pads for Arduino UNO form factor.
- On board additional 3.3V voltage regulator to supply more 3.3V current.
- DC Adapter Barrel Jack input with reverse polarity protection
- Additional Reset button
- Power indicator LED

**SCHEMATIC DIAGRAM:**





- The Arduino I/O Expansion Shield provides an easy way to connect sensors, servos and RS485 device to Arduino board. It expands Arduino's Digital I/O and Analog Input Pins with Power and GND.
- It also provides separate PWM Pins which are compatible with standard servo connector. Another unique feature is that the I/O shield has a build-in RS485 converter which allows Arduino communicating with RS485 devices.
- The communication socket provides an extremely easy way to plug a wireless module such as APC220 RF module and DF-Bluetooth module.
- It has an individual power input for Servos. A servo power jumper allows user to select using external power or internal power to drive the Servos.
- Draw out all of the digital I/O mouth and analog I/O mouth, every IO mouth has the positive and negative power supply interface standard Lead the I2C interface on the main

board, convenient and connection of the I2C device Increase the DC power supply interface.

- The NANO plate on the USB interface power supply current is actual only 50 ma, to bring high current equipment such as steering gear, when I was at this time in DC power supply interface provides an external power supply, ensure the stability of equipment operation.
- The Arduino I/O Expansion Shield provides an easy way to connect sensors, servos and RS485 device to Arduino board. It expands Arduino's Digital I/O and Analog Input Pins with Power and GND.
- It also provides separate PWM Pins which are compatible with standard servo connector. Another unique feature is that the I/O shield has a build-in RS485 converter which allows Arduino communicating with RS485 devices.
- The communication socket provides an extremely easy way to plug a wireless module such as APC220 RF module and DF-Bluetooth module. It has an individual power input for Servos.
- A servo power jumper allows user to select using external power or internal power to drive the Servos.

**PACKAGE INCLUDES:**

1 x NANO IO Shield Expansion Board.